

**AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application:

1-9. (Cancelled)

10. (Cancelled)

11. (Currently Amended) A chuck device, ~~according to claim 10, further~~ comprising:

a first base member;

a second base member on said first base member;

first means in said first base member for receiving and increasing a rotational force;

second means in said first base member for receiving said rotational force from said first means and for increasing said rotational force into an increased rotational force;

said second means for receiving including means for redirecting said increased rotational force perpendicular to said first means for receiving and increasing;

means for converting said increased rotational force from said second means into an increased axial force perpendicular to said first and said second means;

said means for converting being operable between said first and said second base member, whereby said rotational force is transferred through said first base member to said second base member and converted into an increased axial force operable relative to said second base member;



said second diameter greater than said first diameter;  
said ~~second~~ worm wheel having a second rotation axis;  
said first rotational axis being perpendicular to said second rotational axis; and  
said first worm gear threadably engaging said ~~second~~ worm wheel and being effective to magnifying said rotational force.

12. (Previously Presented) A chuck device, according to claim 11, further comprising:

a first operational axis on said means for converting;  
said first operation axis being parallel said second rotational axis;  
said first operational axis being perpendicular to said an axial direction of motion of said first claw member;  
said first operational axis being perpendicular to said first rotational axis;  
said first sloped engagement groove being sloped relative to said first operation axis; and  
said means for converting including means for receiving said increased rotational force and operating along said second rotational axis, whereby said first claw member operates simultaneously in said first direction of motion relative to said second base member and along said first sloped engagement groove relative to said first conversion member.

13. (Previously Presented) A chuck device, according to claim 12, further comprising:

at least a first engagement groove in said second base member;  
at least a first leg on first claw member;  
said first leg in said first engagement groove; and



said first grease access being parallel said first direction of motion; and

said first grease access being operable along a first face of said first sloped engagement groove, whereby an external lubricant is easily applied between said conversion member and said first engagement section effective to allow smooth operation of said chuck device.

18. (Previously Presented) A chuck device, according to claim 17, further comprising:

a second sloped engagement groove on said first conversion member;

a second claw member in said means for chucking;

at least a second engagement section on said second claw member;

said second sloped engagement groove being sloped relative to a second direction of motion of said second claw member relative to said second base member;

said means for chucking including means for operating said second claw member axially along said axial direction of said second base member; and

said second sloped engagement groove engaging said second engagement section to retain said second engagement section and drive said second engagement section along said second direction of motion and fix said external item to said second base member, whereby said external item is secured to said chuck device.

19. (Cancelled)

20-26. (Cancelled)



a second gear mechanism coupled to said worm wheel and said screw shaft member, the second gear mechanism further configured to move said screw shaft member in said second direction guided by a threaded hole formed in said worm wheel in response to rotation of the worm wheel.

29. (Currently Amended) The chuck device according to claim ~~27~~ 28, wherein said chuck device further comprises a second claw member moveable on said base member and wherein said first and second claw members are symmetrically moveable on the base member in said first direction.

30. (Previously Presented) A chuck device for chucking an external item, comprising:

a base member,

at least a first claw member moveable on said base member in a first direction between a first position wherein said claw member engages said external item and a second position wherein said claw member does not engage said external item,

an rotatable input member provided in said base member and configured to apply a rotational drive force,

a worm gear mechanism coupled to said input member and configured to decelerate said rotational drive force,

a screw shaft member provided in said base member and moveable in a second direction substantially perpendicular to said first direction to apply an axial drive force,

a second gear mechanism provided in said base member and coupled to said worm gear mechanism and said screw shaft member, wherein the second gear mechanism is further configured





